ABSTRACT OF THE DISCLOSURE

A shift pressure control apparatus for an automatic transmission is arranged to hold the shift pressure during a shift at a starting input-torque-dependent pressure determined from a transmission input torque at a start of a shift. A controller is configured to monitor an operating parameter representing an engine load of an engine, to detect an engine load change. When the engine load change is detected, the controller modifies the shift pressure to a modified pressure determined by modifying the starting input-torque-dependent pressure with a difference between a second engine-load-dependent pressure determined from the engine load after the engine load change and a first engine-load-dependent pressure determined from the engine load at the start of the shift.